

2022 Irrigated Winter Wheat Variety Performance Trial at Fort Collins

Variety	Brand/Source	Market Class	Grain Yield ^a bu/ac	Test Weight lb/bu	Plant Height in	Heading days from trial avg ^b
CO18D297R	Colorado State University exp.	HRW	92.0	61	28	1
CO18042RA	Colorado State University exp.	HRW	89.5	61	28	0
CP7017AX	CROPLAN	HRW	86.0	62	25	0
CO18D007W	Colorado State University exp.	HWW	84.5	61	27	0
Kivari AX	PlainsGold	HRW	84.5	60	29	-2
Guardian	PlainsGold	HRW	84.0	61	28	1
CO18035RA	Colorado State University exp.	HRW	83.5	61	27	-4
KS Silverado	Kansas Wheat Alliance	HWW	83.5	60	25	-4
Monarch	PlainsGold	HWW	83.5	60	26	2
Byrd CL Plus	PlainsGold	HRW	83.0	61	29	1
Ray	PlainsGold	HRW	81.0	52	33	9
Canvas	PlainsGold	HRW	80.5	60	26	0
CO17449R	Colorado State University exp.	HRW	80.5	60	27	3
CO13D1479	Colorado State University exp.	HWW	79.5	60	27	1
Breck	PlainsGold	HWW	79.0	62	26	3
Crescent AX	PlainsGold	HRW	77.0	61	28	-7
CO18SFD009W	Colorado State University exp.	HWW	74.0	61	24	1
Fortify SF	PlainsGold	HRW	74.0	60	28	-3
Breakthrough	Oklahoma Genetics, Inc.	HRW	73.0	60	26	0
CP7266AX	CROPLAN	HRW	72.0	60	27	0
Snowmass 2.0	PlainsGold	HWW	69.5	61	29	2
Brawl CL Plus	PlainsGold	HRW	66.0	59	26	-4
Average			80.0	60	27	May 26, 2022
°LSD (0.30)			2.5	1		
°LSD (0.05)			5.0	1		
Coefficient of Variation (CV)			6.0			

^aYield adjusted to 12% moisture and varieties ranked by yield (highest to lowest). Variety yields in bold are in the top LSD group (0.30).

^bVarieties with positive values headed later than the trial average and varieties with negative values headed earlier than the trial average.

^cFarmers selecting a variety based on yield should use the LSD (0.30) to protect from false negative decisions. Companies or researchers may be interested in the LSD (0.05) to avoid false positive conclusions.

Site Information

Collaborator: CSU Wheat Improvement Team and the Ag. Research, Development and Education Center (ARDEC)

Harvest date: July 13, 2022

Planting date: September 21, 2021

Soil Type: Fort Collins loam

GPS Coordinates: 40.652947, -104.99922

Trial Comments: Planted into moisture from pre-plant irrigation. Good stands and average fall growth. Radar estimates showed the trial received 5.5" of precipitation and 3401 growing degree-days (GDD) (base 32°F) from Jan. 1st through July 13th, which was 3.3" below and 39 GDD below the 10-year average, respectively. Trial was irrigated in fall and again in spring and early summer as water was available.

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